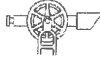# THOMPSON-LISTON
A S S O C I A T E S , I N C .

Professional Engineers   Professional Land Surveyors
Erosion Control Specialists
51 Main Street, Post Office Box 570
Boylston, Massachusetts 01505-0570
Telephone 508-869-6151   FAX 508-869-6842
www.thompsonliston.com

July 18, 2016

Grafton Planning Board
30 Providence Road
Grafton, Massachusetts 01519

Re: Preliminary Subdivision filing for
        Land at 88 Adams Road, Grafton, Massachusetts
        Assessor's map 32 parcel 10

Dear Board Members:

Enclosed are five full size sets and twelve reduced size sets of revised Conventional Subdivision Plans for this site in Grafton now dated 7-14-2016. The Plans have been revised pursuant to the discussion with the Grafton Planning Board at its meeting on 27 June 2016. The Plans have been revised to show the correct connection of Road C to a possible subdivision road in Westborough and to add additional detail at the proposed intersection of Road A with Adams Road.

Sheets G3, G5, G6, P1, P5 and P6 show these areas and are the only sheets in the Plan set that have been altered.

Also enclosed are five full size copies and 12 reduced size copies of a Sight Distance Confirmation Plan showing the available sight distance for a vehicle leaving the proposed Road A and turning onto Adams Road. The available sight distance is at least 395 feet looking south and is 315 feet looking north. Per AASHTO's handbook, <u>A Policy on Geometric Design of Highways and Streets</u>, for rural road "T" intersections the determining factor of adequate sight distance is whether available sight distance exceeds necessary stopping sight distance.

Conley Associates' automatic traffic recorders placed on Adams Road revealed an 85th percentile speed of 37 mph. Rounding this up to 40 mph to be conservative we get a necessary stopping sight distance of 305 feet from Exhibit 5-2 of the handbook. The available sight distance looking north of 315 feet exceeds the requirement.

If you have any questions, please don't hesitate to contact me. Thank you.

Sincerely,

Thompson-Liston Associates, Inc..

James Tetreault, PE

Enclosures
Cc: Graves Engineering, Inc.
        Casa Builders